

Exhibit A
CURRICULUM VITAE

DAVID B. WEINER

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Education: 1974-1978 B.S. SUNY at Stony Brook, NY (Biology)
1981-1985 M.S. University of Cincinnati, Cincinnati, OH, Department of
Biology, Biology
1981-1986 Ph.D. University of Cincinnati, Cincinnati, OH, Developmental
Biology Graduate Program, College of Medicine

Postgraduate Training and Fellowship Appointments:
12/1/86-6/30/89 Immunology Research Fellow: Division Director, Mark I. Greene, M.D., Ph.D.,
FRCP, Division of Immunology, School of Medicine, University of Pennsylvania

Faculty Appointments:

7/1/89 Research Assistant Professor of Pathology and Laboratory Medicine, University of
Pennsylvania School of Medicine, Philadelphia, PA.
7/1/89 Research Assistant Professor of Pathology and Laboratory Medicine in Medicine,
University of Pennsylvania School of Medicine, Philadelphia, PA.
7/1/89 Wistar Institute Assistant Professor of Pathology and Laboratory Medicine,
University of Pennsylvania School of Medicine, Philadelphia, PA
7/1/90 Wistar Institute Assistant Professor of Medicine (secondary), University of
Pennsylvania School of Medicine, Philadelphia, PA.
7/1/93 Assistant Professor of Pathology and Laboratory Medicine, University of
Pennsylvania School of Medicine, Philadelphia, PA.
7/1/95 Associate Professor of Pathology and Laboratory Medicine, University of
Pennsylvania School of Medicine, Philadelphia, PA.

Awards, Honors, and Memberships in Honorary Societies:

1973-1978 Regents Scholarship Award
1974 Bay Ridge Medical Society Award for Excellence in Science
1976-1977 Lupus Foundation of Greater New York Biomedical Research Award
1982 Lions Club Service Award
1982-1983 Graduate Research Fellowship - Academic Year

1983	Weiman Summer Fellowship
1983-1984	Graduate Research Fellowship - Academic Year
1984	URC Summer Fellowship
1984	Sigma Xi Research Fellowship
1984-1985	President Biomedical Graduate Student Association.
1985	Sigma Xi Young Investigator Award
1985	URC Summer Fellowship
1991	1991 Rose Award Sponsor
1993	Rose Award Sponsor
1993	Phila. Business Award top 100 Philadelphians of 1993
1994	WHO AIDS Research Laboratory
1994	Maplethorpe Scholar

Membership in Professional Societies:

American Association for the Advancement of Science
International AIDS Society
American Society for Microbiology
Greater Philadelphia Economic Development Council
Pennsylvania Biotechnology Association
Ben Franklin Technology Council-Technology Council

Editorships Positions:

Senior Editor, DNA and Cell Biology
Section Editor, Viral Immunology
Editorial Board, Immunologic Research
Pennsylvania Biotechnology Association
Pennsylvania Bar Association- Special Section on Biomedical issues
Special Consultant- New York City Department of Consumer Affairs, AIDS Fraud Division

Training and Major Teaching and Clinical Responsibilities for the University of Pennsylvania.

Frederick Vivino, M.D.	1988-1989	Presbyterian Medical Cntr., Assistant Professor
Dan McCallus, Ph.D.	1988-1990	USDA- Philadelphia, Senior Staff Investigator
Michael Satre, Ph.D.	1990-1992	UC Davis, Assistant Professor
Min Kim, M.D.	1992 - 1993	Catholic University Medical College, Assistant Professor
Mr. David Levy	1989 - 1994	Harvard, Boston, Post Doctoral Fellow
Ms. Alice Sato	1990 - present	
Ms. Beth O'Donnell	1991 - present	
Bin Wang, Ph.D.	1991 - present	Dept. of Pathology and Laboratory Medicine University of Pennsylvania, Research Assistant Professor Research Assistant Professor Georgetown University
Vasanth Srikantan, D.V.M.	1991 - 1995	
Velpandi Ayyavoo, Ph.D.	1993 - present	
Brian MacDonald, M.D.	1992 - 1995	Clinical Director Bone disease Smith Kline Beecham
Michael Agadjanyan Ph.D.	1993 - present	
Laura Fernandez, M.D.	1992 - 1994	Staff Fellow- Thomas Jefferson University, Department of Rheumatology
Kenneth Ugen, Ph.D.	1990 - 1994	Assistant Professor

Department of Microbiology
Medicine, University of
South Florida

Student Committees

John Korostoff	1993	Ph.D.in Immunology
Sandy Saoff-Chair	1994	Ph.D in Immunology
Ahmed Faruke	1994	Ph.D. in Biochemistry

Present

Anne Maitlan-Chair	Candidate	Ph.D. In Immunology
Chih Chiang	Candidate	Ph.D. in Immunology

Undergraduate training

Mr. Sam Lee	1988 - 1990	Harvard- Dental school
Mr. Jonathon Pletcher	1988 - 1990	U. Pittsburg- Medical school
Mr. Brian Margerum	1988 - 1990	Temple- Medical school
Mr. Hugh Fogel	1988 - 1990	U. Michigan- Ph.D Prog. in Micro.
Ms. Hyonah Shin	1990 - 1991	Temple- Medical school
Ms. Tonya Villafena	1992 - 1993	Cornell- Ph.D. Prog. in Immunology
Mr. Yosef Refaeli	1992 - 1994	Harvard-Ph.D. Prog. in Immunology
Mr. Craig Delaval	1990 - 1992	University of Pennsylvania Medical School

Course Teaching:

Division of Rheumatology	1989 - present	M.D. Fellows Training lectures in molecular biology and Immunology
Department of Otolaryngology	1992- present	Surgical Fellows Lecture series in molecular Immunology.
Rheumatology Bridge course	1993-present	molecular biology/immunology
Immunology Medical School	1995-present	Co-instructor

Academic Committees at the University of Pennsylvania:

1989	Graduate Faculty, Immunology Program, University of Pennsylvania, Philadelphia, PA
1990	Graduate Faculty, Pharmacology Program, University of Pennsylvania, Philadelphia, PA
1993	COAP - Clinician Educator Tract - Dept. of Pathology and Lab Medicine

Lectures by Invitation (1992 -1995):

1992	Research perspective Moore v. Regents of the University of California, Pennsylvania Bar Association, Harrisburg. January.
1992	Biotechnology Approaches to the Design of anti-HIV Therapeutic Reagents , Marion Merrill Dow, April
1992	The Structure of the HIV Envelope can be Approached through Homology with Immunoglobulin CDR Regions, Repligen Co., Cambridge MA. May
1992	New Animal Models for AIDS Vaccines, Rhone-Poulenc Rorer Central Research, Collegeville, PA, August.

- 1992 Vaccination by Recombinant Retroviral Vaccines, International Biotechnology USA Conferences Inc, South Natick, MA. September.
- 1992 The Technology of Vaccine design against the Human Immunodeficiency Virus, The Immune Response Corporation, San Diego Ca. November.
- 1992 Vaccine development against Human Retroviruses. Third International Symposium on Catalytic RNA's (Ribozymes) and Targeted Gene Therapy for the treatment of HIV Infection (NIAID-DAIDS), San Diego Ca. December.
- 1992 Genetic Innoculation generates protective Immune responses in vivo. Vical, San Diego, CA. December.
- 1993 Conference Co-Organizer-Bioeast 1993. January
- 1993 Chair-Genetic Vaccination-Genetic Vaccine development, a new approach to developing protective anti-HIV immune responses-Bioeast, Washington DC. January.
- 1993 HIV-cell Interactions and Anti-HIV Immune Responses, La Jolla Institute for Allergy and Immunology, La Jolla, CA. March.
- 1993 HIV Genes, Viral Tropism and Cell Entry, DNX, Princeton, N.J. March.
- 1993 An anti-oncogene is encoded in the HIV genome, Interplex, NYC. March.
- 1993 Chair: Genetic Vaccination Implications of the Technology, Atlanta ASM. May
- 1993 Chair: HIV Regulatory Genes and HIV Pathogenesis, Atlanta ASM. May
- 1993 Genetic Vaccination Induces Protective anti-HIV Immune Responses In Vivo. NJ. IGI. June
- 1993 Genetic Vaccination against HIV-1. Washington DC, NIAID-DAIDS-NCDDG. July.
- 1993 Vpr Induction of Cell Differentiation. Washington, DC, NIAID-DAIDS-NCDDG. July.
- 1993 Induction of Humoral and Cellular anti-HIV Immune Responses Through Genetic Inoculation. Boston - Science Annual Meeting on New Technologies. August.
- 1993 Pathogenesis of HIV Infection is controlled by a Regulatory Gene. CUNY Dept. Microbiology New York, September.
- 1993 Genetic Innoculation Induces CTL Responses against HIV. International Biotechnology Conference. Washington, D.C. October.
- 1993 Vaccination against Human Retroviruses using Plasmid Vectors, ICAAC Symposium. New Orleans. October.
- 1993 Infectivity and Pathogenesis of HIV. Immune Response Institute. Princeton, N.J., October
- 1993 Induction of Protective Immunity against HIV-1 by Genetic Inoculation. International European AIDS EVA conference. Munich, Germany. November.

- 1994 CHAIR: Facilitated DNA Inoculation Produces Specific Gene Expression In Vivo which Induces Specific Immune Responses in the Absence of Replicating Vector Systems. IBC Fourth Conference on Gene Therapy. Washington, DC. November.
- 1994 DNA Inoculation can Induce Protective Immunity in Nonhuman Primates: Advances in Gene Therapy. CHI, Washington, D.C. December.
- 1995 Conference organizer & Chair DNA Inoculation Induces Broad Anti-HIV Immunity In Vivo. Gene Therapy & Nucleic Acid Vaccine Strategies. Bethesda, MD. February
- 1995 Chair, Direct DNA Immunization for the Production of Anti-HIV Immune Responses *in vivo*. Second International Conference on Engineered Vaccines for Cancer and AIDS. San Francisco, California. March.
- 1995 Results with Genetic Immunization. Third Annual Conference on Vaccines: New Technologies & Applications. Alexandria, VA. March.
- 1995 Nucleic Acid Vaccination : Studies in the HIV-1 Model. Southwestern Medical Center. U of Texas at Dallas. May.
- 1995 DNA Vaccines for HIV-1; Progress Toward Vaccine Development Fourth Annual NCDDG/SPIRAT Meeting/DAIDS/NAIAD, Bethesda MD. July.

Bibliography:

Receptor Biology and Immunology

1. Hyman, J., Beekman, J., Weiner, D.B., and Sadove, S. Beached whale responds to rest and treatment. *Norden News* 56: 32. 1981
2. Mathews, E.A., Keller, S.J., and Weiner, D.B. A method to collect and culture skin biopsies from free-ranging gray whales (*Eschrichtus robustus*). *Marine Mammol.* 4: 196-202. 1988.
3. Weiner, D.B., Watson, S.R., Babcock, G.F., and Keller, S.J. Expression of human T cell surface antigens in interspecies hybridomas. *Cell. Immunol.* 100(1): 197-209. 1986.
4. Maguire, H.C., Jr., Weiner, D.B., Sibinga, E., and Greene, M.I. The neu oncogene in human neuroblastoma. *Adv. Neuroblastoma Research.* 2: 165-173. 1988.
5. Weiner, D.B., Liu, J., Hanna, N., Bluestone, J., Coligan, J., Williams, W.V., and Greene, M.I. CD3 - associated heterodimeric polypeptides on suppressor hybridomas define biologically active inhibitory cells. *Proceeding of National Academy of Sciences. USA* 85: 6077-6081. 1988.
6. Kokai, Y., Dobashi, K., Weiner, D.B., Meyers, J., Nowell, P.C., and Greene, M.I. Novel phosphorylation process induced by epidermal growth factor alters the oncogenic and cellular neu gene products. *Proceeding of National Academy of Sciences. USA* 85: 5389. 1988.
7. Williams, W.V., Guy, H.R., Cohen, J.A., Weiner, D.B., and Greene, M.I. Molecular and immunologic analyses of a functional internal image formed by an anti-receptor antibody. *Annales de l' Institut Pasteur* 139: 659-675. 1988.

8. Williams, W.V., Weiner, D.B., Wadsworth, S., and Greene, M.I. The antigen-major histocompatibility complex T-cell receptor interaction: A structural analysis. *Immunol. Res.* 7: 339-350. 1988.
9. Weiner, D.B., Williams, W.V., Siegel, R.M., Jerrold-Jones, S., and Greene, M.I. Molecular characterization of suppressor T cells: Biology of transfusion induced immunosuppression. *Transplan. Proc.* 20: 1151-1153. 1988.
10. Weiner, D.B., Siegel, R.M., Williams, W.V., and Greene, M.I. Lymphocytes suppressive network and soluble effector mechanism. *Clinical Immunology. Newsletter* 9: 184-188. 1988.
11. Williams, W.V., Moss, D.A., Weiner, D.B., Cohen, J.A., Guy, H.R., and Greene, M.I. Anti-idiotypic modeled peptides with biologic activity. *Adv. Immunopharmacol.* 4: 119-126. 1988.
12. Romano, C., Williams, W.V., Fischberg, D.J., Cocero, N., Weiner, D.B., Greene, M.I., and Molinoff, P.B. Subtype selective immunoprecipitation of the B₂-adrenergic receptor. *Journal of Neurochemistry.* 53: 362-369. 1989.
13. Williams, W.V., Moss, D.A., Kieber-Emmons, T., Cohen, J.A., Myers, J.N., Weiner, D.B., and Greene, M.I. Development of biologically active peptides based on antibody structure. *Proc. National Academy of Sciences. USA* 86: 5537-5541. 1989.
14. Cohen, J.C., Weiner, D.B., More, K.F., Kokai, Y., Williams, W.V., Maguire, H.C., Livolsi, V.A., and Greene, M.I. Expression pattern of the neu gene-encoded growth factor receptor protein (p185^{neu}) in normal and transformed epithelial tissues of the digestive tract. *Oncogene* 4: 67-73. 1989.
15. Williams, W.V., Guy, H.R., Cohen, J.A., Weiner, D.B., and Greene, M.I. Structure and regulation of internal image idiotypes. *Chem. Immunol.* 48: 185-208. 1989.
16. Williams, W.V., London, S.D., Weiner, D.B., Wadsworth, S., Berzofsky, J.A., Robey, F., Rubin, D.H., and Greene, M.I. Immune response to a molecularly defined internal image idiotypic. *J. Immunol.* 142: 4392-4400. 1989.
17. Weiner, D.B., Kokai, Y., Wada, T., Cohen, J.A., Williams, W.V., and Greene, M.I. Linkage of tyrosine kinase activity with transforming ability of the p185^{neu} oncoprotein. *Oncogene* 4: 100-109. 1989.
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19. Williams, W.V., Weiner, D.B., Rubin, D.H., and Greene, M.I. Shared antigenic structure defines of the neutralizing epitope of the reovirus type 3⁺. *Therapeutic Advances in Clinical Immunology : Immunology and Allergy Clinics of North America* 8: 169-172. 1989.
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Molecular Virology

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6. Williams, W.V., Weiner, D.B., and Greene, M.I. Development and use of anti-idiotypic anti-receptor antibodies to study the interaction of the mammalian reovirus type 3 with its cell surface receptor. *Meth. Enzymol.* 178: 321-340. 1989.
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26. Wang, B., Fang, Q., Williams, W.V., Weiner, D.B., Double-stranded DNA Sequencing by linear amplification with Taq Polymerase. *Biotechnics*. 13:527-530. 1992
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